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Docket #: 135486

Express Mail No. EV 298647565 US

WHAT IS CLAIMED IS:

1. A method of at least partially compensating for an x-ray tube target angle heel effect, said method comprising:

positioning a filter having an anode side and a cathode side between an x-ray source and an x-ray detector, wherein the cathode side has a higher attenuation coefficient than the anode side, to at least partially compensate for the target angle heel effect.

- √ 2. A method in accordance with Claim 1 wherein said positioning a filter
 comprises positioning a wedge shaped filter, wherein the wedge shape comprises a horizontal
 top, a bottom, a first vertical side and a second vertical side, wherein the horizontal top and
 the bottom are not parallel and wherein the first vertical side and the second vertical side are
 unequal in length.
- A method in accordance with Claim 2 wherein said positioning a wedge shaped filter comprises depositing a material on an x-ray tube window to form a wedge shaped filter.
- $\sqrt{4}$. A method in accordance with Claim 3 wherein said depositing a material comprises depositing aluminum on an x-ray tube window to form a wedge shaped filter.
- $\sqrt{5.}$ A method in accordance with Claim 3 wherein said depositing a material comprises depositing copper on an x-ray tube window to form a wedge shaped filter.
- 6. A method in accordance with Claim 2 wherein said positioning a wedge shaped filter comprises positioning the wedge shaped filter proximate an x-ray tube casing filter separated from an x-ray tube window by an oil gap.
- V 7. A method in accordance with Claim 6 wherein said positioning a wedge shaped filter further comprises positioning an aluminum wedge shaped filter.
- 8. A method in accordance with Claim 6 wherein said positioning a wedge shaped filter further comprises positioning a copper wedge shaped filter.

Express Mail No. EV 298647565 US

Docket #: 135486

 $\sqrt{9}$. A method in accordance with Claim 2 wherein the second vertical side comprises a length between 0.5mm and 1.5mm thicker than the first vertical side.

10. A method in accordance with Claim 9 wherein the second vertical side comprises a length of 1mm greater than the first vertical side.

11. A method in accordance with Claim 1 wherein said positioning a filter comprises positioning a concave-wedge shaped filter, wherein the concave-wedge shape comprises a horizontal top, a concave bottom, a first vertical side and a second vertical side, wherein the first vertical side and the second vertical side are unequal in length.

12. An x-ray tube comprising:

an anode;

a cathode:

a beryllium window; and

a material deposited on said window, wherein said material is wedge shaped, wherein said wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein said first vertical side and said second vertical side are unequal in length.

✓ 13. An x-ray tube in accordance with Claim 12 wherein said wedge shaped filter being positioned includes depositing a material on an x-ray tube window to form said wedge shaped filter.

J14. An x-ray tube in accordance with Claim 13 wherein said material deposited on an x-ray tube window is aluminum.

15. An x-ray tube in accordance with Claim 13 wherein said material deposited on an x-ray tube window is copper.

16. An imaging system for scanning an object comprising:

Docket #: 135486

a radiation source;

a radiation detector positioned to receive radiation from said radiation source;
a computer operationally coupled to said radiation source and said radiation
detector; and

a filter having an anode side and a cathode side, positioned between said source and said detector, wherein said cathode side has a higher attenuation coefficient than said anode side, to at least partially compensate for a target angle heel effect.

- $\sqrt{17}$. A system in accordance with Claim 16 wherein said filter is wedge shaped, wherein said wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein said first vertical side and said second vertical side are unequal in length.
- 18. A system in accordance with Claim 17 wherein said wedge shaped filter being positioned includes depositing a material on an x-ray tube window to form said wedge shaped filter.
- 19. A system in accordance with Claim 18 wherein said material deposited on an x-ray tube window comprises aluminum.
- $\sqrt{20}$. A system in accordance with Claim 18 wherein said material deposited on an x-ray tube window comprises copper.
- 21. A system in accordance with Claim 17 wherein said wedge shaped filter being positioned includes positioning said wedge shaped filter proximate an x-ray tube casing filter separated from an x-ray tube window by an oil gap.
- $\sqrt{22}$. A system in accordance with Claim 21 wherein said wedge shaped filter being positioned comprises aluminum.
- 23. A system in accordance with Claim 21 wherein said wedge shaped filter being positioned comprises copper.

Express Mail No. EV 298647565 US

Docket #: 135486

24. A system in accordance with Claim 17 wherein said second vertical side comprises a length between 0.5mm and 1.5mm thicker than said first vertical side.

V25. A system in accordance with Claim 24 wherein said second vertical side comprises a length of 1mm greater than said first vertical side.

26. A system in accordance with Claim 16 wherein said filter is concave-wedge shaped, wherein said concave-wedge shape comprises a horizontal top, a concave bottom, a first vertical side and a second vertical side, wherein said first vertical side and said second vertical side are unequal in length.

√27. A Computed Tomography (CT) imaging system for scanning an object comprising:

an x-ray source;

an x-ray detector positioned to receive x-rays from said source;

a computer operationally coupled to said x-ray source and said x-ray detector; and

a filter having an anode side and a cathode side, positioned between said source and said detector, wherein said cathode side has a higher attenuation coefficient than said anode side, to at least partially compensate for a target angle heel effect.

\$\sqrt{28}\$. A system in accordance with Claim 27 wherein said filter is wedge shaped, wherein said wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein said first vertical side and said second vertical side are unequal in length.

 $\sqrt{29}$. A system in accordance with Claim 28 wherein said wedge shaped filter being positioned includes depositing a material on an x-ray tube window to form said wedge shaped filter.

Express Mail No. EV 298647565 US

Docket #: 135486

30. A system in accordance with Claim 29 wherein said material deposited on an x-ray tube window is aluminum.

- √ 31. A system in accordance with Claim 29 wherein said material deposited on
 an x-ray tube window is copper.
- 32. A system in accordance with Claim 28 wherein said wedge shaped filter being positioned includes positioning said wedge shaped filter proximate an x-ray tube casing filter separated from an x-ray tube window by an oil gap.
- 33. A system in accordance with Claim 32 wherein said wedge shaped filter being positioned is aluminum.
- √ 34. A system in accordance with Claim 32 wherein said wedge shaped filter being positioned is copper.
- √ 35. A system in accordance with Claim 28 wherein said second vertical side comprises a length between 0.5mm and 1.5mm thicker than said first vertical side.
- 36. A system in accordance with Claim 28 wherein said second vertical side comprises a length of 1mm greater than said first vertical side.
- √ 37. A system in accordance with Claim 27 wherein said filter is concave-wedge shaped, wherein said concave-wedge shape comprises a horizontal top, a concave bottom, a first vertical side and a second vertical side, wherein said first vertical side and said second vertical side are unequal in length.